

## **Results for the 10'x80' circular tank with ramp:**

### **Circular tank:**

Tank Diameter = 80 ft

Tank Wall thickness = 8 in (actual)

Tank Height = 10 ft

$f_y = 60,000$  psi

$f'_c = 4,000$  psi

Horizontal Steel = #4 rebar		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	10	1' 1"
3	10	1' 11"
4	10	2' 9"
5	9	3' 6"
6	9	4' 3"
7	9	5' 0"
8	9	5' 9"
9	10	6' 7"
10	10	7' 5"
11	10	8' 3"
12	10	9' 1"
13	8	9' 9"

Vertical Steel shall be #4 @ 12" O.C.

Dowels "L" bars shall be #4 @ 12" O.C. with a horizontal leg of 6" and a vertical leg of 26"


For a length of 60 feet, centered on the ramp, substitute #5 rebar for the #4 horizontal rebar for bars #4 to bar #9 in the tank (6 bars total).

In the tank wall, at the notch for the ramp add:

3-#6 bars x 9'-10" long @ 4" O.C. vertically.

3-#6 bars x 20' long @ 4" O.C. horizontally.

4-#6 bars x 6' long @ 4" O.C. at a 45 degree angle.

 Natural Resources Conservation Services United States Department of Agriculture	<u>                    </u> County, PA <b>ROUND TANK W/RAMP</b> <b>DETAIL Page 6.12</b>	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____
		Approved _____